Docket No. 201377US-3

# IN THE UNITED STATES PATENT & TRADEMARK OFFICE

IN RE APPLICATION OF

Katsuhiko MAEDA

SERIAL NO: 09/749,541

OUP ART UNIT: (Unassigned as of yet)

XAMINER: (Unassigned as of yet)

FILED: DECEMBER 28, 2000

FOR: LIGHT BEAM MAGNIFICATION:

ERROR AUTO CORRECTING

**APPARATUS** 

## **PRELIMINARY AMENDMENT**

ASSISTANT COMMISSIONER FOR PATENTS WASHINGTON, D.C. 20231

SIR:

Prior to the calculation of the fees, please amend the above-identified patent application, as follows:

## IN THE SPECIFICATION:

Please amend the specification, as follows:

Page 1, line 4, after "APPARATUS", change the title of the invention by inserting,

--AND METHOD--;

line 7, change "This" to --The present--, after "priority", insert --,--, and after

"119", insert --,--;

line 8, after "11-374378", insert --,--;

line 13, delete ":";

line 18, after "particular", insert --,--; and

line 22, delete ":".

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Page 2, line 2, change "has an object of" to --has, as one of its objects, to obtain--;
                line 3, delete "obtaining";
                line 4, delete "the";
                line 5, after "performance", insert --,--;
                line 16, change the second occurrence of the word "the" to --of--;
                line 18, change the first occurrence of the word "control" to --controls--; and
                line 19, change "frequency is" to --clocks are--.
        Page 3, line 1, change "proposes an object of" to --proposes, as one of its objects, to-
and change "correcting" to --correct--;
                line 3, change "index and accordingly" to --index. Accordingly, -- and after
"magnification", insert --is--;
                line 4, change "the like" to --similar--;
                line 6, after "detect", insert --a--, after "and", insert --an--, and after
"scanning", insert --of--;
                line 7, after "the", insert --laser--;
               line 14, delete "of" and after "signals", insert --,--;
               line 15, after "detectors", insert --,--; and
               line 16, change "prescribed two" to --two prescribed,--.
       Page 4, line 2, after "beam", insert --, -- and after "deflection", insert --, --;
               line 3, change "a" to --an-- and change "f" to --f\theta--;
               line 4, after "scanning", insert -- of--;
               line 8, delete "of" and after "and", insert --changes in--;
               line 12, after "direction", insert --,-- and delete "and";
               line 14, change "remarkable" to --remarkably--:
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line 17, change "respectively proposes capable of" to --propose--;
                line 20, between "temperature" and ".", insert --, respectively--;
                line 21, after "each", insert --laser beam-- and after "of", insert --a--;
                line 22, after "beams", insert --,--;
                line 23, after "generated", insert --,--; and
                line 24, change "beams" to --beam-- and after "of", insert --the plurality of--.
        Page 5, line 1, change "thereof" to --each of the plurality of laser beams.--;
                line 2, after "and", insert --the-- and after the second occurrence of the word
"of", insert --the--;
                line 3, after "beams", insert --,--;
                line 4, after "sensor", insert --,--;
                line 5, change "the count" to --clocks counted--;
                line 7, after "performance", insert --,-- and after "while", insert --being--;
                line 8, change "preventing" to --prevented--, after "from", insert --the--, and
after "speed", insert --,--;
                line 11, after "at", insert --two-- and after "prescribed", insert --,--;
                line 12, delete "two";
               line 14, after "speed", insert --,--, after "the", insert --two--, after "prescribed",
insert --,--, and delete "two";
               line 15, after "beam", insert --,--; and
               line 20, change "the like" to --similar--.
       Page 6, line 10, change "requires" to --is required--;
               line 12, after "speed", insert -- (i.e., -- and change "far" to --high a speed--;
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line 13, after "possible", insert --, while still allowing the clocks-- and between
"counted" and ".", insert --)--;
                line 14, change "using" to --during-- and after "high speed", insert
--generation of--;
                line 15, after "by", insert --only--;
                line 17, after "speed", insert --generation of-- and change "clock" to --clocks--;
                line 18, change "counted" to --generated-- and between "at" and ",", insert
--and counted--; and
                line 24, change "in a" to --its--.
        Page 7, line 1, change "affect" to --affects--;
                line 3, change "requires" to --is required--:
                line 4, after "since", insert --an--;
                line 5, delete "none", change "the like" to --similar--, and change "it" to --an
increase in clock speed--;
                line 6, after "hardly", insert --ever--;
                line 7, change "it can not be" to --one cannot expect--;
                line 8, delete "expect", after "obtain", insert --a--, and after "minimum", insert
--number--;
               line 9, between "countable" and ".", insert --clocks--;
               line 13, change "resolve" to --solve-- and after the third occurrence of the
word "and", insert --to--;
               line 17, after "apparatus", insert --,--, after "including", insert --:--, and change
"device" to --devices--;
               line 18, change "detects" to --detect--;
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line 20, change "device generates" to --devices generate-- and delete "of"; and
                line 23, change "timing" to --time-- and after "formation", change "," to --;--.
        Page 8, line 2, change "that" to --the light beam--; and
               line 3, after "of", insert --the-- and after "devices", change "," to --:--.
        Page 9, line 24, change "timing" to --time--.
        Page 11, line 3, change "operation" to --operational--;
               line 6, change "operation" to --operational--;
               line 9, change "operation" to --operational--;
               line 16, change "sectional" to --cross-sectional--;
               line 19, change "sectional" to --cross-sectional--:
               line 20, change "Image" to --image--; and
               line 22, change "diagram" to --graph-- and change "relation" to
--relationship--.
        Page 12, line 1, change "diagram" to --graph-- and change "relation" to
--relationship--;
               line 7, change "sectional" to --cross-sectional--; and
               line 19, change "sectional" to --cross-sectional--.
       Page 13, line 8, change "sectional" to --cross-sectional--;
               line 15, change "diagram" to --graph-- and change "relation" to
--relationship--;
               line 18, change "sectional" to --cross-sectional--; and
               line 23, change "sectional" to --cross-sectional--.
       Page 14, line 3, change "cause" to --caused--;
               line 6, change "sectional" to --cross-sectional--;
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202--;

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line 13, change the second occurrence of the word "a" to --the--; and
        line 20, change "sectional" to --cross-sectional--.
Page 16, line 14, change "beam-scanning" to --beam scanning--;
        line 19, after "and", insert --be-- and after "102", insert --which is--;
        line 20, change "a" to --an--; and
        line 21, change "is" to --then be--.
Page 17, line 1, after "example", insert --,--;
        line 3, change "There may be provided a" to --A--;
        line 5, after "all", insert --may be provided--;
        line 8, change "as" to --in--; and
        line 24, after "and", insert --be--.
Page 18, line 1, delete "that";
        line 3, delete ", respectively," and delete "respective of";
        line 4, between "202" and ".", insert --, respectively--;
        line 8, change "210" to --201-- and after "202", insert --, the sensors 201 and
       line 23, delete "of" and after "WCLK", insert --,--; and
       line 24, after "208", insert --,--.
Page 19, line 1, after "1", insert --,-- and after "201", insert --,--;
       line 13, change "generates" to --generate--;
       line 17, after "CLK", insert --,--; and
       line 18, after "212", insert --,--.
Page 20, line 1, delete "to the comparator 502";
       line 2, between "one" and ".", insert --to the comparator 502--;
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line 3, change "such a value may be set to" to --the-- and after "output", insert --may be given a value--;

line 6, after "303", insert --,--;

line 7, after "period,", insert -- is shown.--;

line 8, change the first occurrence of the word "and" to --The time difference counting section 303-- and delete "such";

line 14, after "and", insert -- the counted value--; and

line 23, delete "respectively,".

Page 21, line 2, after "the", insert --write clock--;

line 4, after the first occurrence of the word "the", insert --polygon use clock-and delete ", respectively";

line 10, change "to respective of" to --on--;

line 11, delete ", respectively,";

line 12, change "(T0)," to --(T0).--;

line 13, delete "and" and change "accordingly," to --Accordingly,--; and

line 14, after "can", insert --be-- and delete "be".

Page 22, line 3, change "respective of" to --the--;

line 6, after "table,", insert --the--;

line 12, after "it", insert --is--;

line 13, change "requires" to --required--, change "if those are" to --whether the time difference (T) is--, and between "equal" and ".", insert --to the reference time difference (T0)--;

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line 14, change "as" to --to be--, after "normal", insert --,--, change "when a"
to --if the--, and after "difference", insert --between the time difference (T) and the reference
time difference (T0)--;
                line 15, delete "of";
                line 17, change "are more than" to --between the time difference (T) and the
reference time difference (T0) is not within--;
                line 18, change "relation" to --relationship--;
                line 19, after "beam", insert --,--; and
                line 23, change "relation" to --relationship--.
        Page 23, line 5, change "relation" to --relationship--;
                line 8, change "relation" to --relationship--;
                line 11, after "not", insert --be required--;
                line 12, delete "require";
                line 16, after "firstly", insert --,--;
                line 18, after "secondly", insert --,--; and
                line 20, after "clock", insert --,-- and delete "the".
        Page 24, line 5, change "roughly" to --roughness--;
                line 6, after "the", insert --time difference--;
                line 7, after "the", insert --reference time difference--, and after "namely",
insert --,--;
                line 8, after "is", insert --at--;
                line 9, change "any more" to --at this time--;
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line 11, after "case,", insert --the-- and after "is", insert --at--;

line 13, after the first occurrence of the word "the", insert --time difference-and after the second occurrence of the word "the", insert --reference time difference--;

line 14, after "namely", insert --,-- and after "is", insert --at--;

line 16, delete "all of";

line 19, after the first occurrence of the word "the", insert --time difference-and after the second occurrence of the word "the", insert --reference time difference--;

line 21, after "accordingly", insert --,--; and

line 23, after the first occurrence of the word "the", insert --time difference--and after the second occurrence of the word "the", insert --reference time difference--.

Page 25, line 2, after "accordingly", insert --,-- and after "mirror", insert --,--; line 6, after "level", insert --is reached--;

line 13, the second occurrence of the word "the", insert --time difference-- and after the third occurrence of the word "the", insert --reference time difference--;

line 17, change "T" to --(T)--;

line 18, change "T0" to --(T0)--;

line 21, after "to", insert --steps-- and delete "steps"; and

line 22, delete "of" and after "S807", insert --,--.

Page 26, line 1, change "relation" to --relationship--;

line 3, change "increase" to --increased--, change "decrease" to --decreased--, and delete "respective of";

line 6, change "the" to --a-- and change "relation" to --relationship--;

line 10, change "20,000rpm," to --20,000 rpm--;

line 11, change "20,000rpm," to --20,000 rpm,--;

line 12, change "24MHz," to --24 MHZ--;

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line 15, change "23,997MHz," to --23,997 MHZ--;
               line 19, change "666,67MHz," to --666,67 MHZ--;
               line 21, change "20,002.4rpm," to --20,002.4 rpm,--; and
               line 11, change "666,74MHz," to --666,74 MHZ-- and change "20,002.2rpm,"
to --20,002.2 rpm,--.
       Page 27, line 15, change "at" to --of--.
       Page 28, line 10, after "images", insert --which have been--;
               line 14, delete "from";
               line 18, after "of", insert --the--;
               line 22, after "sensor", insert --,--; and
               line 23, after "signal", insert --,--.
       Page 29, line 1, after "(i.e.", insert --,--;
               line 7, after "(i.e.", insert --,-- and delete "to";
               line 9, after "1", insert --,-- and delete "to";
               line 10, delete "to"; and
               line 20, after "and", insert --a--.
       Page 30, line 1, delete "respective of";
               line 2, after "beam", insert --,--;
               line 3, after "1101", insert --,--;
               line 12, after "111BK", insert --,--; and
               line 21, after "then", insert --be--.
       Page 31, line 2, change "is" to --then be--; and
               line 6, change "is" to --be--.
       Page 32, line 3, delete ", respectively";
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line 9, after "direction", insert --,--;
                line 10, after "larger", insert --being-- and delete the third occurrence of the
word "the";
                line 11, change "relation" to --relationship--;
                line 12, change "relation" to --relationship--; and
                line 16, delete "its" and after "both", insert -- of its--.
        Page 33, line 3, change "scan" to --scanned--; and
                line 23, after "deviated", insert --to the--.
       Page 34, line 22, after the first occurrence of the word "to", insert --an--.
        Page 35, line 9, after "of", insert --the-- and change "position" to --positions--;
                line 13, after "width", insert --, which--; and
               line 18, after "of", insert --the--.
       Page 37, line 21, after "and", insert --a-- and change "plus" to --pulse--.
       Page 38, line 18, change "at" to --in--;
               line 21, after "difference", insert -- T--;
               line 22, after "the", insert --time difference--; and
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line 23, after the first occurrence of the word "the", insert --reference time difference--.

Page 39, line 1, delete "be", change "remained" to --remain--, and after the second occurrence of the word "the", insert --reference time difference--;

line 2, after the first occurrence of the word "the", insert --reference time difference--; and

line 10, after "table,", insert --the--.

Page 40, line 3, delete "the";

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line 4, change "with" to --to--;
                line 6, change "that" to --the allowable--;
                line 16, change "(magnification?)" to --magnification--; and
                line 22, change "is" to --then be--.
        Page 41, line 4, change "is" to --then--;
                line 7, change "(beam?)." to --beam.--:
               line 8, after "Also", insert --,-- and delete "determined and generated by the
magnification correcting";
               line 9, delete "section 208 may be"; and
               line 10, between "102" and ".", insert --may be determined and generated by
the magnification correcting section 208--.
       Page 42, line 5, change "synchronize" to --synchronized--.
       Page 43, line 4, after "plurality", insert --of--;
               line 5, change "pair" to --pairs--; and
               line 19, after "be", insert --as--.
       Page 44, line 14, after "2201", insert --,-- and delete "all";
               line 15, after "208", insert --,--; and
               line 19, change "is" to --are--.
       Page 45, line 16, change "sent" to --send--; and
              line 19, after "in", insert --a-- and delete the first occurrence of the word "the".
       Page 46, line 3, delete ",";
              line 5, delete "are";
              line 7, after "2201", insert --,-- and change "all" to --both--; and
              line 8, after "208", insert --,--.
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Page 47, line 13, change ", wherein" to --and--; and
                line 16, change ", wherein" to --and--.
        Page 48, line 2, after "is", insert --a--:
                line 7, change "as" to --having--;
                line 8, change "one" to --scanning device-- and change "whose" to --it has a--;
                line 9, change "is most" to --only-- and between "another" and ",", insert
--scanning device--;
                line 10, after "10," insert -- for example, --;
                line 11, after the first occurrence of the word "of", insert --two-- and delete
"two";
                line 12, delete ", for example";
                line 13, after "have", insert --a--;
                line 15, delete ", respectively,";
                line 16, delete "to" and after "of", insert --the--;
                line 20, after "such", insert --a--;
                line 21, change "sin" to --in--;
                line 23, delete "The tenth"; and
               line 24, delete "embodiment corresponds to claims 2 and 4.".
        Page 49, line 11, delete "respectively,";
               line 12, after "and", insert --the-- and after "scans", insert --may be
performed--;
               line 13, after "mirror,", insert --may--;
               line 14, after "lens,", insert --may be--;
               line 15, after "mirrors,", insert --may-- and after "BTL,", insert --may be--;
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line 16, after "then", insert --may--;
                line 18, change "Laser" to --laser--;
                line 20, change "is" to --may be--;
                line 21, after "any", insert --may--;
                line 23, after "1101,", insert --may--; and
                line 24, change "is" to --may be--.
        Page 50, line 5, after "1101,", insert --may--;
                line 6, change "is" to --may be--;
                line 14, after "2801MY,", insert --respectively, -- and after "and", insert
--may--; and
                line 24, delete "from the other", after "to", insert --be--, delete "be", and
change "detect" to --detected --.
        Page 51, line 5, after "illustrates", insert --the-- and change "relation" to
--relationship--;
               line 7, after "and", insert --changes in the--;
               line 8, delete "changes";
               line 11, change "increase in" to --though-- and between "temperature" and ".",
insert -- has increased --;
               line 12, change the second occurrence of the word "the" to --a--;
               line 13, after "amount", insert --, -- and after "closer", insert --it is--; and
               line 19, change "form" to --from--.
       Page 52, line 2, change "by" to --using--;
               line 3, after "change", insert --,-- and after "26", insert --,--;
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line 6, after "formed", insert --,--, after "example,", insert --the--, and after the
second occurrence of the word "for", insert --the--;
                line 7, between "opposite" and ".", insert -- of each other--;
                line 8, after "those", insert --two color images--:
                line 10, after "be", insert --on--;
                line 11, change "that" to --the write start position--, change "mage" to
--image--, and after "be", insert --on--;
                line 12, delete "of";
                line 18, delete "of" and delete "a";
                line 20, after "(b)", insert --,--; and
                line 22, change "(X Y)," to --(X - Y),--.
        Page 53, line 1, change "(X Y)," to --(X - Y),--;
               line 7, change "can not" to --cannot-- and after "and", insert --a--;
               line 12, after "of", insert --the-- and change "mono colors" to --mono-colors--;
               line 17, after "Also", insert --, -- and delete "different therefrom may be"; and
               line 21, between "3004" and ".", insert --, may be different from the sixth
embodiment--.
       Page 54, line 8, after "PLCK", insert --,-- and after "data", insert --,--.
       Page 55, line 7, after "having", insert --an--;
               line 18, after "may", insert --be-- and change "require" to --required--; and
               line 24, change "form" to --from--.
       Page 56, line 2, change "is" to --if--;
               line 3, after "amount", insert --,-- and after "is", insert --an--; and
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202--.

line 4, after "WCLK", insert --,-- and change "that less than" to --the deviation amount minus--.

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Page 57, line 9, after "is", insert --at--;
        line 13, after "and", insert --a--;
        line 22, after "and", insert --a--; and
        line 24, after "and", insert --a--.
Page 58, line 6, after "Dt2", insert --,--;
        line 8, change "are" to --may be--;
        line 13, delete "of a";
        line 18, after "the", insert --positional deviation--; and
        line 22, change "results" to --result-- and delete "of".
Page 59, line 12, after "employing", insert --a--;
        line 15, change "side" to --sides--;
        line 16, change "is" to --may be--;
        line 18, after the second occurrence of the word "and", insert --may--; and
        line 19, change "he" to --the-- and between "sensors" and ",", insert --201 and
Page 60, line 11, after the second occurrence of the word "of", insert --the--; and
        line 20, change "is" to --may then be--.
Page 61, line 7, after "and", insert --may--;
        line 18, after the second occurrence of the word "and", insert --may--; and
        line 24, change "by" to --with--.
Page 62, line 4, after "and", insert --may--;
        line 5, after "402", insert --,-- and change "and" to --which--;
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line 10, change "is" to --then be--;
                line 18, after "during", insert --the-- and after "sending", insert --of--; and
                line 22, after "to", insert --the--.
        Page 63, line 7, delete ",";
                line 8, after "the", insert --time difference--;
                line 9, after "the", insert --reference time difference--;
                line 12, change "is" to --may be--:
                line 15, after the first occurrence of the word "the", insert --time difference--
and after the second occurrence of the word "the", insert --reference time difference--;
                line 18, after the second occurrence of the word "the", insert --time
difference-- and after the third occurrence of the word "the", insert --reference time
difference--; and
                line 22, after "table,", insert --the--.
        Page 64, line 1, after "and", insert --then--:
                line 7, after the first occurrence of the word "the", insert --time difference--
and after the second occurrence of the word "the", insert --reference time difference--;
                line 9, after the first occurrence of the word "the", insert --time difference--,
delete "is", and after the second occurrence of the word "the", insert --reference time
difference--;
               line 10, after "T0", insert --,--;
               line 15, after "13", insert --,-- and delete "wherein";
               line 17, change "change," to --change causes--, after "beam", insert --to--, and
change "expands," to --expand--;
               line 19, after "14", insert --,-- and change "wherein" to --a--;
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line 20, change "change," to --change causes an--;
               line 21, after "temperature", insert -- and after "in", insert -- a--; and
               line 23, after "namely", insert --,-- and change "relation" to --relationship--.
        Page 65, line 2, change "the relation" to --that relationship--;
               line 6, change "(number" to --number--;
               line 7, change "rotations) is" to --rotations be-- and change "as far as" to --so
that--; and
               line 20, after "WCLK", insert --,-- and after "Also", insert --,--.
       Page 66, line 2, after "to", insert --a--;
               line 3, after "formation,", insert -- and --;
               line 4, after "to", insert -- those of--;
               line 13, change "20,000rpm," to --20,000 rpm,--;
               line 14, change "10,000rpm." to --10,000 rpm.--;
               line 16, after the second occurrence of the word "the", insert --time
difference--;
               line 17, after the first occurrence of the word "the", insert --reference time
difference--;
               line 19, change "20,000rpm" to --20,000 rpm--; and
               line 22, after the first occurrence of the word "the", insert --time difference--
and after the second occurrence of the word "the", insert --reference time difference--.
       Page 67, line 1, after the first occurrence of the word "the", insert --time difference--
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line 7, after the first occurrence of the word "the", insert --time difference-and after the second occurrence of the word "the", insert --reference time difference--;

and after the second occurrence of the word "the", insert --reference time difference--;

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line 10, after the second occurrence of the word "the", insert --time
difference-- and after "and", insert -- the reference time difference--;
               line 13, after "13", insert --,--;
               line 18, change "relation" to --relationship--;
               line 21, after the second occurrence of the word "the", insert --time
difference-- and after "and", insert -- the reference time difference--; and
               line 22, change "relation" to --the relationship--.
       Page 68, line 3, change "relation" to --relationship--;
               line 4, change "before hand" to --beforehand--;
               line 7, change "as far as" to --so that--;
               line 11, change "including" to --having-- and delete ", respectively,";
               line 13, after "34", insert --, respectively,--;
               line 19, change "20,000rpm" to --20,000 rpm--;
               line 20, change "10,000rpm" to --rotation number of 10,000 rpm-- and change
"different" to --difference--;
               line 21, after "be", insert --more--, delete the first occurrence of the word
"more", and delete the second occurrence of the word "more";
               line 22, delete "is", after the first occurrence of the word "the", insert --highest
rotation--, and change "20,000rpm." to --20,000 rpm.--;
               line 23, delete "that is"; and
               line 24, delete "executed", after "of", insert -- any one of the--, and delete
"any".
       Page 69, line 1, delete "one of";
               line 3, after "20,000 rpm", insert --,--;
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line 9, after "every", insert --time--;
                line 11, change "start" to --as--;
                line 12, change "if what ever" to --though-- and after "in", insert --the--;
               line 13, after "obtained", insert --,--;
               line 14, delete "from";
               line 16, after "section", insert --,--;
               line 18, after "2", insert --,--; and
               line 22, after "embodiment", insert --, in--.
        Page 70, line 2, after "the", insert --time difference--;
               line 9, change "is" to --are--;
               line 16, after the first occurrence of the word "the", insert --time difference--
and after the second occurrence of the word "the", insert --reference time difference--; and
               line 22, after "if", insert --the time difference-- and after "than", insert --the
reference time difference--.
       Page 71, line 7, change "20,000rpm," to --20,000 rpm,--:
               line 8, change "20,000rpm," to --20,000 rpm,-- and change "lowest
10,000rpm." to --rotation number of 10,000 rpm.;
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line 12, after the first occurrence of the word "the", insert --time difference-and after the second occurrence of the word "the", insert --reference time difference--;

line 16, after the second occurrence of the word "the", insert --time difference-- and after the third occurrence of the word "the", insert --reference time difference--;

line 21, after "the", insert --time difference--;

line 22, after the first occurrence of the word "the", insert --reference time difference--, after "When", insert --the time difference--, and after "to", insert --the reference time difference--; and

line 24, change "20,000rpm" to --20,000 rpm--.

Page 72, line 4, change "is" to --are--;

line 7, change "rotation" to --rotations--;

line 8, change "can not" to --cannot--;

line 19, after "if", insert -- the range of--;

line 20, delete "range" and change "relation" to --relationship--;

line 21, after "between", insert --the--;

line 23, change "as far as" to --so that--; and

line 24, after "occur", insert --,--.

Page 73, line 7, change "from" to --any of--;

line 11, after the second occurrence of the word "of", insert --the--;

line 14, after the second occurrence of the word "of", insert --the--;

line 20, after the first occurrence of the word "of", insert --the--;

line 22, delete "of" and between "scanner" and ".", insert --provided--; and

line 23, change "(e.g." to --(e.g.,--.

Page 74, line 4, delete "respective of the";

line 18, change "direction the more" to --direction,--, after "nearer", insert --it is--, and delete the second occurrence of the word "the";

line 21, change "another" to --other--;

line 23, change "when" to --where--; and

line 24, delete "the".

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Page 75, line 2, change "created being" to --created, which is--;
               line 9, after "by", insert --a--;
               line 11, change "can nor" to --cannot be--;
               line 12, after "remains", insert --,--;
               line 19, change "from" to -- any of the--;
               line 20, change "can not" to --cannot--;
               line 21, change "mono color" to --mono-color--;
               line 23, after the first occurrence of the word "the", insert --time difference--
and after "than", insert -- the reference time difference--; and
               line 24, change "mono color" to --the mono-color--.
       Page 76, line 1, change "mono color" to --the mono-color--;
               line 2, change "has" to --have-- and change "temporary" to --temporarily--;
               line 4, change "mono color" to --mono-color--;
               line 6, change "scanning" to --scannings--;
               line 7, delete "a";
               line 8, change "mono color" to --the mono-color--;
               line 11, delete "for" and delete "may be counted";
               line 12, change "mono color" to --the mono-color--;
               line 17, change "mono color" to --the mono-color--;
               line 18, change "mono color" to --the mono-color--;
               line 19, change "mono color" to -- of the mono-color--;
               line 21, change "mono color" to --the mono-color--; and
              line 24, change "that" to --the magnification error--.
       Page 77, change "sub scanning" to --sub-scanning--; and
```

line 6, change "e" to --the--.

### **IN THE CLAIMS**:

Please cancel claims 1-14, without prejudice or disclaimer, and add new claims 15-90, as follows:

- --15. An image forming apparatus, comprising:
- a light beam generating device configured to generate a light beam;
- a light beam modulating device configured to modulate the light beam in accordance with an image signal at a prescribed write clock frequency;
- a light beam deflecting device configured to rotate by a prescribed rotation number and deflect the light beam so as to scan an image carrier in a main scanning direction;
- a pair of light beam detecting devices configured to detect the light beam, said pair of light beam detecting devices being separately positioned in the main scanning direction;

a time difference determining device configured to determine a time period elapsing from when the light beam is detected by a first of said pair of light beam detecting devices to when the light beam is detected by a second of said pair of light beam detecting devices, said time difference determining device generating a time difference signal at an optional timing of image formation;

a comparing device configured to compare the time difference signal with a reference time difference signal representing preferable magnification so as to recognize magnification error of the light beam in the main scanning direction;

a magnification correcting device configured to correct the magnification error by changing the prescribed write clock frequency and the prescribed rotation number to prescribed levels based on a result of a comparison between the time difference signal and the reference time difference signal by said comparing device; and

a visualizing device configured to visualize an image formed on the image carrier after the magnification error is corrected.

16. An image forming apparatus for forming a color image by superimposing different mono color images, said image forming apparatus comprising:

a plurality of light beam generating devices configured to generate a plurality of light beams;

a plurality of light beam modulating devices configured to modulate the plurality of light beams in accordance with an applicable mono color image signal at prescribed write clock frequencies;

at least one light beam deflecting device configured to rotate by a prescribed rotation number and deflect the plurality of light beams so as to scan an image carrier in a main scanning direction;

at least one pair of light beam detecting devices configured to detect the plurality of light beams, said at least one pair of light beam detecting devices being separately positioned in the main scanning direction;

a time difference determining device configured to determine a time period elapsing from when the light beam is detected by a first of said at least one pair of light beam detecting devices to when the light beam is detected by a second of said at least one pair of light beam detecting devices, said time difference determining device generating a time difference signal at an optional timing during image formation;

a comparing device configured to compare the time difference signal with a reference time difference signal representing preferable magnification so as to recognize magnification errors of the light beams in the main scanning direction; a magnification correcting device configured to correct the magnification errors by changing both of the prescribed write clock frequencies of the plurality of light beams and the prescribed rotation number to prescribed levels based on a result of comparison between the time difference signal and the reference time difference signal by the comparing device; and a visualizing device configured to visualize and superimpose different mono color

a visualizing device configured to visualize and superimpose different mono color images formed on the image carrier after the magnification errors are corrected.

- 17. The image forming apparatus according to claim 15 or claim 16, wherein said magnification correcting device continuously corrects the magnification errors until a time difference indicated by the time difference signal substantially accords with the reference time difference indicated by the reference time difference signal.
- 18. The image forming apparatus according to claim 15 or claim 16, wherein the prescribed rotation number is determined by a prescribed pulse clock frequency.
- 19. The image forming apparatus according to claim 18, wherein both of the prescribed write clock frequencies and the prescribed pulse clock frequency are changed to prescribed levels, the prescribed levels being obtained from a magnification correction table.
- 20. The image forming apparatus according to claim 15, wherein both of the prescribed write clock frequencies and a prescribed pulse clock frequency are changed to prescribed levels, the prescribed levels being obtained from a magnification correction table.
- 21. The image forming apparatus according to claim 19, wherein each of the prescribed levels corresponds to an amount of time difference.
- 22. The image forming apparatus according to claim 20, wherein each of the prescribed levels corresponds to an amount of time difference.
- 23. The image forming apparatus according to claim 16, wherein said at least one light beam deflecting device and said at least one pair of light beam detecting devices are

provided in each of mono color image forming sections so as to correct said magnification error in each of mono color image forming sections.

- 24. The image forming apparatus according to claim 16, wherein said at least one light beam deflecting device and said at least one pair of light beam detecting devices are provided in any one of mono color image forming sections so as to correct all of the magnification errors occurring in each of the mono color image forming sections based on a time difference determined from signals of said at least one pair of light beam detecting devices.
- 25. The image forming apparatus according to claim 15, wherein said magnification correcting device changes the prescribed rotation number of said light beam deflecting device if the magnification errors cannot completely be corrected only by changing the prescribed write clock frequency.
- 26. The image forming apparatus according to claim 16, wherein said magnification correcting device changes the prescribed rotation number of said at least one light beam deflecting device if the magnification errors cannot completely be corrected only by changing the prescribed write clock frequency.
- 27. The image forming apparatus according to claim 25, wherein the prescribed rotation number is charged when said magnification correcting device executes correction of the magnification errors and a prescribed amount of the magnification errors remain.
- 28. The image forming apparatus according to claim 26, wherein the prescribed rotation number is charged when said magnification correcting device executes correction of the magnification errors and a prescribed amount of the magnification errors remain.

- 29. The image forming apparatus according to claim 25, wherein the prescribed rotation number is not changed if the prescribed amount of the magnification errors remaining cannot be corrected by changing the prescribed rotation number.
- 30. The image forming apparatus according to claim 26, wherein the prescribed rotation number is not changed if the prescribed amount of the magnification errors remaining cannot be corrected by changing the prescribed rotation number.
- 31. The image forming apparatus according to claim 15, wherein said magnification correcting device changes the prescribed write clock frequency and the prescribed rotation number after initializing a current rotation number of said light beam deflecting device and wherein a new time difference signal is generated and compared with the reference time difference signal.
- 32. The image forming apparatus according to claim 16, wherein said magnification correcting device changes the prescribed write clock frequency and the prescribed rotation number after initializing a current rotation number of said at least one light beam deflecting device and wherein a new time difference signal is generated and compared with the reference time difference signal.
- 33. The image forming apparatus according to claim 31, wherein after initializing the current rotation number, the current rotation number returns to the prescribed level of the prescribed rotation number such that the magnification errors substantially do not occur.
- 34. The image forming apparatus according to claim 32, wherein after initializing the current rotation number, the current rotation number returns to the prescribed level of the prescribed rotation number such that the magnification errors substantially do not occur.
- 35. The image forming apparatus according to claim 15 or claim 16, further comprising an image write start position adjusting device configured to adjust an image write

start position of the light beam in the main scanning direction on the image carrier in accordance with the time difference signal.

- 36. An image forming apparatus, comprising:
- a light beam generating device configured to generate a light beam;
- a light beam modulating device configured to modulate the light beam in accordance with an image signal at a prescribed write clock frequency;
- a light beam deflecting device configured to rotate by a prescribed rotation number and deflect the light beam so as to scan an image carrier in a main scanning direction;

an optical unit configured to include an  $\theta$  lens configured to convert the light beam from substantially a uniform angular speed to substantially a uniform speed;

a temperature detecting device configured to detect temperature of said optical unit; a magnification correcting device configured to correct magnification error of the light beam in the main scanning direction by changing the prescribed write clock frequency and the prescribed rotation number to prescribed levels in accordance with the temperature detected by said temperature detecting device; and

a visualizing device configured to visualize an image formed on the image carrier.

- 37. The image forming apparatus according to claim 36, wherein said prescribed levels of the prescribed write clock frequency and a clock frequency for the prescribed rotation number are stored in a prescribed reference table corresponding to the temperature.
- 38. The image forming apparatus according to claim 37, wherein the temperature of said optical unit is a temperature of said  $\theta$  lens.
- 39. An image forming apparatus for forming a color image by superimposing different mono color images, said image forming apparatus comprising:

a plurality of light beam generating devices configured to generate a plurality of light beams;

a plurality of light beam modulating devices configured to modulate the plurality of light beams, respectively, in accordance with an applicable mono color image signal at a plurality of prescribed write clock frequencies;

at least one light beam deflecting device configured to rotate by a prescribed rotation number and deflect the plurality of light beams so as to scan an image carrier in a main scanning direction;

at least one optical unit configured to include an  $\theta$  lens configured to convert the plurality of light beams from substantially the uniform angular speed to substantially the uniform speed;

at least one temperature detecting device configured to detect temperature of the optical unit;

a magnification correcting device configured to correct the magnification errors in the main scanning direction by changing the plurality of write clock frequencies of the plurality of laser beams and the prescribed rotation number of said at least one light beam deflecting device to prescribed levels in accordance with the temperature of said at least one optical unit; and

a visualizing device configured to visualize and superimpose different mono color images formed on the image carrier after the magnification errors are corrected.

40. The image forming apparatus according to claim 39, wherein the prescribed rotation number is changed to a substantially smallest level as color deviation does not occur in a sub-scanning direction.

- 41. The image forming apparatus according to claim 39, wherein the temperature of said at least one optical unit is a temperature of said  $\theta$  lens.
- 42. The image forming apparatus according to claim 39, wherein said at least one temperature detecting device is a plurality of temperature detecting devices which are employed so as to detect a temperature of said fθ lens such that outputs of said plurality of temperature detecting devices are averaged as temperature data.
- 43. The image forming apparatus according to claim 15 or claim 16, wherein said time difference determining device determines a time difference by counting clock pulses after lowering a light beam deflection speed of said light beam deflecting device to a prescribed speed.
- 44. The image forming apparatus according to claim 15 or claim 16, wherein said time difference determining device determines a time difference by counting clock pulses after lowering a light beam deflection speed of said at least one light beam deflecting device to a prescribed speed.
- 45. The image forming apparatus according to claim 43, wherein the prescribed speed of the light beam deflection speed is increased to the prior level after the magnification errors, recognized when the light beam deflection speed is lowered, has been corrected.
- 46. The image forming apparatus according to claim 44, wherein the prescribed speed of the light beam deflection speed is increased to the prior level after the magnification errors, recognized when the light beam deflection speed is lowered, has been corrected.
- 47. The image forming apparatus according to claim 15, wherein said light beam deflecting device includes a polygon mirror.
- 48. The image forming apparatus according to claim 16, wherein said at least one light beam deflecting device includes a polygon mirror.

- 49. The image forming apparatus according to claim 43, wherein the light beam deflection speed is lowered only when the time difference is to be detected during image formation.
- 50. The image forming apparatus according to claim 44, wherein the light beam deflection speed is lowered only when the time difference is to be detected during image formation.
- 51. The image forming apparatus according to claim 49, wherein the light beam deflection speed is returned to a level used for image formation after the magnification error has been corrected.
- 52. The image forming apparatus according to claim 50, wherein the light beam deflection speed is returned to a level used for image formation after the magnification error has been corrected.
- 53. The image forming apparatus according to claim 15, wherein said light beam deflecting device starts rotating at a low speed when the image formation is commenced, and wherein the time difference is then detected.
- 54. The image forming apparatus according to claim 16, wherein said at least one light beam deflecting device starts rotating at a low speed when the image formation is commenced, and wherein the time difference is then detected.
- 55. The image forming apparatus according to claim 53, wherein the image formation includes sheet feeding.
- 56. The image forming apparatus according to claim 54, wherein the image formation includes sheet feeding.

- 57. The image forming apparatus according to claim 55, wherein the light beam deflection speed is increased by changing the clock pulses to a level used for the image formation after completion of the correction of the magnification errors.
- 58. The image forming apparatus according to claim 56, wherein said light beam deflection speed is increased by changing the clock pulses to a level used for image formation after completion of the correction of the magnification errors.
- 59. The image forming apparatus according to claim 15 or claim 16, wherein a time difference is determined without lowering a light beam deflection speed if the image formation is in progress, and the time difference is compared with a first reference time difference so that only existence of the magnification errors can be recognized.
- 60. The image forming apparatus according to claim 59, wherein the light beam deflection speed is lowered when said magnification error can be recognized, wherein a new time difference is determined and compared with a second reference time difference, and wherein the magnification errors recognized from comparison between the new time difference and the second reference time difference is corrected.
- 61. The image forming apparatus according to claim 15 or claim 16, wherein the magnification errors are corrected at a prescribed timing corresponding to an interval of sheets fed to the image carrier.
- 62. The image forming apparatus according to claim 61, wherein the interval of sheets fed is expanded to a prescribed interval if the interval of sheets fed is insufficient to correct the magnification errors.
- 63. The image forming apparatus according to claim 15 or claim 16, wherein new sheet feed is stopped when a time difference is substantially different from a reference time difference, and wherein the magnification errors are then corrected.

64. An image forming apparatus, comprising:

light beam generating means for generating a light beam;

light beam modulating means for modulating the light beam in accordance with an image signal at a prescribed write clock frequency;

light beam deflecting means for deflecting the light beam for scanning an image carrier in a main scanning direction, said light beam deflecting means rotating by a prescribed rotation number;

a pair of light beam detecting means for detecting the light beam, said pair of light beam detecting means being separately positioned in the main scanning direction;

time difference determining means for determining a time period elapsing from when the light beam is detected by a first of said pair of light beam detecting means to when the light beam is detected by a second of said pair of light beam detecting means, said time difference determining means generating a time difference signal at an optional timing of image formation;

comparing means for comparing the time difference signal with a reference time difference signal and recognizing magnification errors of the light beam in the main scanning direction, said reference time difference signal representing preferable magnification in the main scanning direction;

magnification correcting means for correcting the magnification errors by changing the prescribed write clock frequency and the prescribed rotation number to prescribed levels based on a result of a comparison between the time difference signal and the reference time difference signal by said comparing means; and

visualizing means for visualizing an image formed on the image carrier after the magnification errors are corrected.

65. An image forming apparatus for forming a color image by superimposing a plurality of different mono color images, said image forming apparatus comprising:

light beam generating means for generating a plurality of light beams;

light beam modulating means for modulating the plurality of light beams in accordance with an applicable mono color image signal at prescribed write clock frequencies;

light beam deflecting means for deflecting the plurality of light beams for scanning an image carrier in a main scanning direction, said light beam deflecting means rotating by a prescribed rotation number;

a pair of light beam detecting means for detecting the plurality of light beams, said pair of light beam detecting means being separately positioned in the main scanning direction;

time difference determining means for determining a time period elapsing from when the plurality of light beams are detected by a first of said pair of light beam detecting means to when the plurality of light beams are detected by a second of said pair of light beam detecting means, said time difference determining means generating a time difference signal at an optional timing during image formation;

comparing means for comparing the time difference signal with a reference time difference signal representing preferable magnification for recognizing magnification errors of the plurality of light beams in the main scanning direction;

magnification correcting means for correcting the magnification errors by changing both of the prescribed write clock frequencies of the plurality of light beams and the prescribed rotation number to prescribed levels based on a result of comparison between the time difference signal and the reference time difference signal by said comparing means; and

visualizing means for visualizing and superimposing a plurality of different mono color images formed on the image carrier after the magnification errors are corrected.

66. An image forming apparatus, comprising:

light beam generating means for generating a light beam;

light beam modulating means for modulating the light beam in accordance with an image signal at a prescribed write clock frequency;

light beam deflecting means for deflecting the light beam for scanning an image carrier in a main scanning direction, said light beam deflecting means rotating by a prescribed rotation number;

optical means for converting the light beam from substantially a uniform angular speed to substantially a uniform speed, said optical means including an  $\theta$  lens;

temperature detecting means for detecting temperature of said optical means; magnification correcting means for correcting magnification error of the light beam in the main scanning direction by changing the prescribed write clock frequency and the prescribed rotation number to prescribed levels in accordance with the temperature detected by said temperature detecting means; and

visualizing means for visualizing an image formed on the image carrier.

67. An image forming apparatus for forming a color image by superimposing different mono color images, said image forming apparatus comprising:

light beam generating means for generating a plurality of light beams;

light beam modulating means for modulating the plurality of light beams in accordance with an applicable mono color image signal at a plurality of prescribed write clock frequencies;

light beam deflecting means for deflecting the plurality of light beams for scanning an image carrier in a main scanning direction, said light beam deflecting means rotating by a prescribed rotation number;

optical means for converting the plurality of light beams from substantially a uniform angular speed to substantially a uniform speed, said optical means including an  $f\theta$  lens;

temperature detecting means for detecting temperature of said optical means;

image magnification correcting means for correcting magnification errors in the main scanning direction by changing the plurality of write clock frequencies of the plurality of laser beams and the prescribed rotation number of said light beam deflecting means to prescribed levels in accordance with the temperature of said optical unit; and

visualizing means for visualizing and superimposing different mono color images formed on the image carrier after the magnification errors are corrected.

68. A method for forming an image, said method comprising the steps of: generating a light beam;

modulating the light beam in accordance with an image signal at a prescribed write clock frequency;

deflecting the light beam by rotating a light beam deflecting device by a prescribed rotation number so as to scan an image carrier in a main scanning direction;

detecting the light beam at separate positions in the main scanning direction;

determining a time period elapsing from when the light beam is detected at a first of
the separate positions to when the light beam is detected by a second of the separate
positions;

generating a time difference signal at an optional timing of image formation;

comparing the time difference signal with a reference time difference signal representing preferable magnification;

recognizing magnification errors of the light beam in the main scanning direction based on a result of said comparing;

correcting the magnification errors by changing the prescribed write clock frequency and the prescribed rotation number to prescribed levels; and

visualizing an image formed on the image carrier after the magnification errors is corrected.

69. A method for forming a color image by superimposing a plurality of different mono color images, said method comprising the steps of:

generating a plurality of light beams;

modulating the plurality of light beams in accordance with an applicable mono color image signal at a plurality of prescribed write clock frequencies;

deflecting the plurality of light beams by rotating a light beam deflecting device by a prescribed rotation number so as to scan an image carrier in a main scanning direction;

detecting the plurality of light beams at separate positions in the main scanning direction;

determining a time period elapsing from when the plurality of light beams are detected at a first of the separate positions to when the plurality of light beams are detected at a second of the separate positions;

generating a time difference signal at an optional timing during image formation; comparing the time difference signal with a reference time difference signal representing preferable magnification;

recognizing magnification errors of the plurality of light beams in the main scanning direction based on a result of said comparing;

correcting the magnification errors by changing both of the plurality of prescribed write clock frequencies of the plurality of light beams and the prescribed rotation number to prescribed levels; and

visualizing and superimposing different mono color images formed on the image carrier after said correcting the magnification errors is executed.

- 70. The method according to claim 68, wherein said correcting the magnification errors includes changing the prescribed rotation number of said light bean deflecting device if the magnification errors cannot completely be corrected only by changing the prescribed write clock frequency.
- 71. The method according to claim 69, wherein said correcting the magnification errors includes changing the prescribed rotation number of said light bean deflecting device if the magnification errors cannot completely be corrected only by changing the plurality of prescribed write clock frequencies.
- 72. The method according to claim 68, wherein said correcting the magnification errors includes changing the prescribed write clock frequency and the prescribed rotation number after initializing a current rotation number of said light beam deflecting device, and generating and comparing a new time difference signal with the reference time difference signal.
- 73. The method according to claim 69, wherein said correcting the magnification errors includes changing the plurality of write clock frequencies and the prescribed rotation number after initializing a current rotation number of said light beam deflecting device, and

generating and comparing a new time difference signal with the reference time difference signal.

- 74. The method according to claim 72, wherein said initializing returns the prescribed rotation number to a prescribed level wherein the magnification errors substantially do not occur.
- 75. The method according to claim 73, wherein said initializing returns the prescribed rotation number to a prescribed level wherein the magnification errors substantially do not occur.
- 76. The method according to claim 68, wherein said correcting the magnification errors includes adjusting an image write start position of the light beam in the main scanning direction on the image carrier in accordance with the time difference signal.
- 77. The method according to claim 69, wherein said correcting the magnification errors includes adjusting an image write start position of the plurality of light beams in the main scanning direction on the image carrier in accordance with the time difference signal.
  - 78. A method for forming an image, said method comprising the steps of: generating a light beam;

modulating the light beam in accordance with an image signal at a prescribed write clock frequency;

deflecting the light beam by rotating a light beam deflecting device by a prescribed rotation number so as to scan an image carrier in a main scanning direction;

converting the light beam using an  $\theta$  lens from substantially a uniform angular speed to substantially a uniform speed;

detecting temperature of said  $\theta$  lens;

correcting magnification errors of the light beam in the main scanning direction by changing the prescribed write clock frequency and the prescribed rotation number to prescribed levels in accordance with the temperature detected in said detecting temperature of said  $\theta$  lens; and

visualizing an image formed on the image carrier.

79. A method for forming a color image by superimposing different mono color images, said image forming apparatus comprising:

generating a plurality of light beams;

modulating the plurality of light beams in accordance with an applicable mono color image signal at a plurality of prescribed write clock frequencies;

deflecting the plurality of light beams by rotating a light beam deflecting device by a prescribed rotation number so as to scan an image carrier in a main scanning direction;

converting the plurality of light beams using an  $\theta$  lens from substantially a uniform angular speed to substantially a uniform speed;

detecting temperature of said  $f\theta$  lens;

correcting the magnification errors in the main scanning direction by changing a plurality of write clock frequencies of the plurality of laser beams and the prescribed rotation number of said light beam deflecting device to prescribed levels in accordance with the temperature detected in said detecting temperature of said  $f\theta$  lens; and

visualizing and superimposing different mono color images formed on the image carrier after the magnification errors are corrected.

80. The method according to claim 79, wherein the prescribed rotation number is lowered to substantially a smallest level as color deviation does not occur in a sub-scanning direction.

- 81. The method according to claim 80, wherein the substantially smallest level is increased to a prior level after the magnification errors, recognized when a light beam deflection speed is lowered, has been corrected.
- 82. The method according to claim 81, wherein the light beam deflection speed is lowered only when a time difference is to be detected during the image formation.
- 83. The method according to claim 81, wherein the light beam deflection speed is returned to a level used in image formation after said correcting of the magnification errors has been completed.
- 84. The method according to claim 68 or claim 69, wherein said light beam deflecting device starts rotating at a low speed when the image formation is commenced, and wherein a time difference is then detected.
- 85. The method according to claim 81, wherein the light beam deflection speed is increased by changing clock pulses to a level used in the image formation after said correcting of the magnification errors has been completed.
- 86. The method according to claim 68 or claim 69, wherein a time difference is determined without lowering the light beam deflection speed if the image formation is in progress, and wherein a time difference is compared with a first reference time difference so that only existence of the magnification errors can be recognized.
- 87. The method according to claim 86, wherein the light beam deflection speed is lowered when the magnification errors can be recognized, wherein a new time difference is determined and compared with a second reference time difference, and wherein the magnification errors, recognized from comparison between the new time difference and the second reference time difference, is corrected.

- 88. The method according to claim 68 or claim 69, wherein the magnification errors are corrected at a prescribed timing corresponding to an interval of sheets fed to the image carrier.
- 89. The method according to claim 88, wherein the interval of sheets fed to the image carrier is expanded to a prescribed interval if the interval of sheets fed to the image carrier is insufficient to correct the magnification errors.
- 90. The method according to claim 68 or claim 69, wherein new sheet feed is stopped when a time difference is substantially different from a reference time difference, and wherein the magnification errors are then corrected.--

#### REMARKS

Favorable reconsideration of this application, in light of the present amendment and accompanying remarks is respectfully requested.

Claims 15-90 are pending in this application, claims 1-14 having been canceled, without prejudice or disclaimer, by the present amendment, and claims 15-90 having been added by the present amendment.

New claims 15-90 have been added to claim the invention in varying scope.

Applicants respectfully submit that new claims 15-90 do not add any new matter. Based on the foregoing, Applicants respectfully request entry, consideration, and allowance of new claims 15-90.

In view of the present amendment, claims 15-90 are believed to be in condition for allowance, and an early and favorable action to that effect is respectfully requested.

Respectfully submitted,

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